YNK-DBR No. 124
Date 20.01.2021

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

AEE, YSTSD
SBR No: 138/20-21
Date: 16/1/2021

No. Second & Final Bill

Division : EE (Yelehanka Division - Yelehanka Zone) Sub Division: Yelehanka Sub-Division Date:

Bill Received No.....Dated.....Cash Book Voucher No.....Dated.....

Scheduled Docket No.

Name of Work (as per Sanctioned Estimate): **Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -01)**

Reference to Agreement No.: BBMP/EE/YNK.D/E-PMT-12/AG/228/2019-20 Dated 20.03.2020 P-3744

Work Order No.: BBMP/EE/YNK D/W.O/263/2019-20 Dated 23.03.2020

Job Code: 003-20-000085 Budget Head: Estimate Cost: Rs.1002 Lakhs

Name of the contractor & full address: **Sri. R. Satheesh**
(M/s Sathya Constructions)
No. 600, Down Bazaar Road, Yelehanka, Bangalore- 560064

Certified that the measurements were checked by me on 23/12/2020 recorded of pages 495138 to 495159

of Measurements Book No. 4952 and that the work is satisfactorily executed.

Contractor. Sri. R. Satheesh (M/s Sathya Constructions) Officer in charge of the work 23/12 AE-2

Certified that the measurements were taken by me on 23/12/2020 and found correct.

The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account I have been actually brought to site of the work and that this not previously received any advance of this security. These materials are of an imperishable nature & are required for immediate use in the work in connection with items for which rates for finished work have been agreed upon. A formula agreement signed & executed by the contractor is recorded is Division office.

Asst. Executive Engineer, Yelahanka Sub Division (BBMP Ynk. Zone)

Total Amount 97753645=00

Previous payment 78440852=00

II MEMORANDUM OF PAYMENT

1. Total value of work done / supplies made as per Account within
2. Deduct amount to be held reserve.....present Rs.....
3. .....Balance.....
4. Deduct payment:
   a). Amount of previous payment as in the office Cash Book Voucher No.....Date.....S.D.No.
   Amount adjusted towards cash advances recovery of
   b) Payments cost of store or other materials Supplied
   Now made recovery of amount creditable to this /other work
   Amount paid on this bill by cheque/cash
5. Balance, being unpaid value of work done hold in reserve.
6. Deduct cash advance made Division/Sub Divisional Cash book Vr. No. .....Date: .....less adjustments
7. Net amount due or from Contractor
   Unadjusted items
8. Advance to contractor for material brought to site (as detailed within)
9. Value if Government material supplied

Gross Amt =Rs	19312793=00
FSD =Rs	—
CGST = Rs	172436=00
SGST = Rs	172436=00
IT = Rs	193128=00
LC = Rs	193128=00
CBF = Rs	19313=00
Royalty = Rs	98646=00
SD = Rs	849087=00
Net Amt=Rs	18463706=00

Contractor's Signature

Received Rs.....(in words).....

.....

by cash & adjustment of payment as per memorandum

Witness
1.
2.

Signature of Contractor

Dated .....

Paid by me cheque No.....dated.....

Cash Rs.....dated .....

Initials of Officer making payment

Audited & Admitted for Rs. 19312793=00
One Crore ninety three lakh twelve thousand Seven hundred & ninety three

18463706=00 by Cheque
Executive Engineer
and Rs. 849087=00 by adjustment

Accts. Supdt.
Yelahanka Division

Exe. Engineer
Yelahanka Division
BBMP

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work :- Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Packa
01)

Job Code: 003-20-000085

RA Bill NO - 02 and Final (ABSTRACT)

Sl No	Description of Work	Unit	As per Modified Estimate			Previous		Present			Upto Date	
			Qty.	Rate	Amt.	Quantity	Amount (Rs.)	Quantity	Rate	Amount (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7	8	9	5	10	11	12
1	KSRRB Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, by manual means, in area of light jungle, removal of stumps, disposable of unserveacable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / chapter 2	Sqm	7900.00	11.13	87927.00	7898.63	87912	0.00	11.13	0.00	7898.63	87911.70
2	Removing and resetting of footpath slab	Sqm	4686.00	219.26	1027452.36	4685.10	1027255	0.00	219.26	0.00	4685.10	1027255.03
3	Removing and resetting of kerb stone	m	3424.00	110.19	377290.56	980.00	107986	2444.00	110.19	269304.36	3424.00	377290.56
4	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime/Cement concrete I/ By Manual Means A. Lime concrete, cement concrete grade M-10 and below MORTH Specification No. 202	cum	123.80	505.30	62556.14	123.30	62303	0.00	505.30	0.00	123.30	62303.49
5	Earthwork Excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per directions of the Engineer-in-charge of the work	cum	6206.86	222.38	1380281.53	5690.96	1265556	515.04	222.38	114534.60	6206.00	1380090.17
6	KSRB 4-1.2. Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC@ 220 kgs, with 40mm and down size graded granite metal course aggregates@ 0.892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2	cum	984.41	5780.92	5690795.46	884.87	5115350	97.32	5780.92	562628.04	982.19	5677977.71

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1	2	3	4	5	6	7	8	9	5	10	11	12
7	Providing TMT Bars Fe 500 steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification and as per directions of the Engineer in charge of work	MT	134.05	75943.33	10180203.39	121.87	9255417	12.17	75943.33	924236.74	134.04	10179653.44
8	Providing and laying plain/reinforced cement concrete for side drains walls & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc complete excluding cost of material as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications	cum	2175.48	7423.71	16150132.63	1992.62	14792627	182.23	7423.71	1352830.13	2174.85	16145457.55
9	Providing and fixing precast reinforced concrete slab 10cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm c/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials(data rate enclosed)	Sqm	6036.30	2453.85	14812174.76	5666.40	13904496	369.00	2453.85	905470.65	6035.40	14809966.29
10	Providing and laying precast drain cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm downsize metal with steel reinforcement including form work, lift charges, curing and concrete finished surfaces on both sides etc complete and as per drawing and direction of Engineer-in-charge of work (data rate enclosed)	Sqm	214.65	5688.90	1221122.39	136.64	777303	78.00	5688.90	443734.20	214.64	1221037.05
11	Providing and fixing Precast solid concrete kerb stones of size 450 x 200 x 400mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc complete as per specifications and as per directions of Engineer in charge of work	Nos	7478.00	500.85	3745356.30	4560.00	2283876	2914.63	500.85	1459792.73	7474.63	3743668.73
12	Painting two coats after filling the surface with syntetic enamel paint in approved shades on new plastered concrete surfaces with materials, labour complete as per specifications and as per directions of the Engineer in charge of work	Sqm	3394.00	89.04	302201.76	1516.50	135029	1877.50	89.04	167172.60	3394.00	302201.76

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1	2	3	4	5	6	7	8	9	5	10	11	12
13	KSRRB M300-50 Scarifying Bituminous course 50mm to 75mm thick along with premix carpet/ surface dressing by Mechanical Means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications MORTH V chapter 3	Sqm	1144.00	57.66	65963.04	1144.00	65963	0.00	57.66	0.00	1144.00	65963.04
14	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes,in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per directions of the Engineer in charge of work.	cum	3177.81	59.88	190287.26	2548.38	152597	628.65	59.88	37643.56	3177.03	190240.26
15	Construction of Granular Sub-Base Grading V as sub base and drainage layer by providing coarse stone aggregates of granite / trap / basalt material, mixing by mix in place method with rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and and compacting with vibratory roller to achieve 98% proctor density, complete as per specifications and as per directions of the Engineer-in-charge of the work	cum	1588.90	1947.75	3094779.98	1274.26	2481946	314.33	1947.75	612226.52	1588.59	3094172.28
16	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per directions of the Engineer-in-charge of the work	cum	2013.76	2101.34	4231594.44	1699.60	3571427	314.16	2101.34	660167.48	2013.76	4231594.44
17	Compaction of original ground by mecahnical means including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specificationsnd as per directions of the Engineer-in-charge of the work	Sqm	10592.70	6.68	70759.24	8497.15	56761	2095.50	6.68	13997.94	10592.65	70758.90
18	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	14868.36	35.62	529610.98	11531.90	410766	3335.96	35.62	118826.90	14867.86	529593.08

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			Qty.	Rate	Amt.	Quantity	Amount (Rs.)	Quantity	Rate	Amount (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7	8	9	5	10	11	12
19	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	33268.95	5.57	185308.05	18229.25	101537	15039.70	5.57	83771.13	33268.95	185308.05
20	Providing and laying dense graded using 120 TPH capacity Asphalt Batch Mix plant with sensor paver GR-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen crushed aggregates of specified grading premixed with VG30 grade bituminous binder and transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all aspects complete as per specifications. Clause 505 of MORTH V revision	cum	794.22	8001.36	6354840.14	576.64	4613927	217.57	8001.36	1740877.90	794.22	6354805.13
21	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	39603.40	13.36	529101.42	24493.91	327239	15104.70	13.36	201798.79	39598.61	529037.43
22	Providing and laying bituminous concrete 40mm thick with hot mix plant using 40-60 TPH capacity HMP with mechanical paver grading -II (30-45 mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crused aggregates of specified grading premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all aspects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015	cum	1584.33	9134.39	14471888.11	979.64	8948425	604.19	9134.39	5518888.83	1583.83	14467314.03
23	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	2034.25	477.48	971313.69	1027.85	490778	1006.40	477.48	480535.87	2034.25	971313.69

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1	2	3	4	5	6	7	8	9	5	10	11	12
24	KSRRB M800-35 Supply and installation of Moulded shank raised pavement markers made of polycarbonate and ABS (Acrylonitrile Butadience Styrene) moulded boady and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to specifications of category A of MORTH Circular No. RW/NH/33023/10-97- Do III Dt. 11.06.1997. The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the Engineer	Nos	3532.00	375.08	1324782.56	0.00	0	3532.00	375.08	1324782.56	3532.00	1324782.56
25	Supply and fixing of Retro- reflective Single arrow Road Name Signboard of size 1600mm x 900mm made out of reflective sheeting conforming to Type XI stands of ASTM D 4956-09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4mm thick Aluminium composite material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS Angle of 15 mm x 20 mm x 1.2 mm supported by 38mm OD stainless steel pipe all around in 304 grade and 2 Nos of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in colour with letters and border in white, the item includes earthwork excavation, cost of all materials, loading,unloading, lead, lift, transportation etc. complete as per direction of Engineer in charge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting	Sqm	4.32	14799.56	63934.10	0.00	0	4.32	14799.56	63934.10	4.32	63934.10
26	Direction and Place Identification Signs with more than 0.9 sqm Size Board:-Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm 2 Nos firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45 x 45 x 60 cm. 60 cm below ground level as per approved drawing	Sqm	23.49	7935.69	186409.36	0.00	0	23.49	7935.69	186409.36	23.49	186409.36

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			Qty.	Rate	Amt.	Quantity	Amount (Rs.)	Quantity	Rate	Amount (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7	8	9	5	10	11	12
	SUB TOTAL				87308067		70036475			17243565		87280040
	GST			12%	10476968	12%	8404377		12%	2069228	12%	10473605
	TOTAL				97785035		78440852			19312793		97753645

CERTIFICATE

Certified that the work is done satisfactorily

Contractor

Gooly Consultancy Services Bangalore

Assistant Engineer

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore
22/12/2020

AE-2

Assistant Executive Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106